

Title (en)
VOLUME BODY RENDERER

Title (de)
WIEDERGABEVORRICHTUNG FÜR VOLUMENKÖRPER

Title (fr)
UNITE DE RENDU DE CORPS VOLUMIQUES

Publication
EP 1381998 A4 20070718 (EN)

Application
EP 02725716 A 20020417

Priority
• US 0212160 W 20020417
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Abstract (en)
[origin: EP2362346A1] Irregular volumes within one or more three-dimensional volume datasets are identified and extracted in response to criteria. The processing involves automatically finding a seed voxel or seed cell that meets the criteria and thus belongs to an irregular volume of interest, and then identifying cells related to the seed cell by one or more predetermined relationships that are therefore also to be grouped into that irregular volume. Information, which can be of any suitable type, identifying each such cell as being related to other cells and belonging to an irregular volume is stored in a suitable data structure. The location or similar neighborhood information and other data describing properties or attributes of the identified cell are also stored. Because the irregular volumes are extracted and pre-processed in this manner, operations including rendering them on a display and performing Boolean and arithmetic operations on them can readily be performed.

IPC 1-7
G06G 7/48; **G06G 7/50**; **G06G 7/58**; **G06T 5/00**

IPC 8 full level
G06F 9/44 (2006.01); **G06F 15/00** (2006.01); **G06G 7/48** (2006.01); **G06G 7/50** (2006.01); **G06G 7/58** (2006.01); **G06T 5/00** (2006.01); **G06T 15/08** (2011.01)

IPC 8 main group level
G06G (2006.01)

CPC (source: EP US)
G01V 1/30 (2013.01 - EP US); **G06T 7/11** (2017.01 - EP US); **G06T 7/187** (2017.01 - EP US); **G06T 15/08** (2013.01 - EP US); **G06T 17/05** (2013.01 - EP US); **G06V 10/267** (2022.01 - EP US); **G06V 10/955** (2022.01 - EP US); **G06T 2207/20156** (2013.01 - EP US); **G06T 2207/30181** (2013.01 - EP US)

Citation (search report)
• [X] GERHARDT, A. AND MACHADO, M. AND GATTASS, M.: "A Combined Approach to 3D Seismic Data Segmentation and Rendering", 6TH INTERNATIONAL CONGRESS OF THE BRAZILIAN GEOPHYSICAL SOCIETY, 1999, Rio de Janeiro, Brazil, XP002424611, Retrieved from the Internet <URL:http://www.tecgraf.puc-rio.br/publications/artigo_1999_combined_approach_3d_seismic.pdf> [retrieved on 20070314]
• [A] DORN G A: "MODERN 3-D SEISMIC INTERPRETATION", LEADING EDGE, THE, SOCIETY OF EXPLORATION GEOPHYSICISTS, TULSA, OK, US, vol. 17, no. 9, September 1998 (1998-09-01), pages 1262 - 1264,1266,, XP000786959, ISSN: 1070-485X
• [XA] TSAI, M.D., JOU, S.B. AND HSIEH, M.S.: "Volume based cutting force simulation for musculoskeletal surgery", THE TENTH INTERNATIONAL CONFERENCE OF ARTIFICIAL REALITY AND TELE-EXISTENCE, 2000, Chia-yi, Taiwan, R.O.C., pages 132 - 139, XP007902446

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WO 02086796 A1 20021031; AT E541274 T1 20120115; AU 2002256265 B2 20080424; AU 2002256265 C1 20111208; CA 2443110 A1 20021031; CA 2443110 C 20140211; CA 2834997 A1 20021031; CA 2834997 C 20160913; CA 2936404 A1 20021031; CA 2936404 C 20180612; CA 2936413 A1 20021031; CA 2936413 C 20180904; DK 1381998 T3 20120206; DK 2362346 T3 20131007; EP 1381998 A1 20040121; EP 1381998 A4 20070718; EP 1381998 B1 20120111; EP 2362346 A1 20110831; EP 2362346 B1 20130710; ES 2378357 T3 20120411; NO 20034643 D0 20031017; NO 20034643 L 20031217; NO 331849 B1 20120423; PT 1381998 E 20120124; US 2002165689 A1 20021107; US 2008297510 A1 20081204; US 2010286972 A1 20101111; US 7412363 B2 20080812; US 7991600 B2 20110802

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